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CLAIMS

What is claimed is:

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- A multi-channel matrix decoder module, comprising:

 a input mixer that produces a plurality of input signal pairs; and
 a matrix decoder coupled to the input mixer that produces a plurality of output signals

 as a function of the input signal pairs.
- A method for decoding multi-channel audio signals, comprising:
 creating at plurality of input signal pairs as a function of three or more input signals;
 and
 creating a plurality of output signals as a function of the plurality of input signal pairs.
- A surround processing system, comprising:
 a multi-channel matrix decoder module that produces a plurality of output signals; and
 an adjustment module that produces a plurality of adjusted output signals.
- 4. A vehicular multi-channel sound processing system, comprising:

 a multi-channel matrix decoder module that creates a plurality of output signals; and a plurality of speakers that receive the plurality of output signals.